

Substitute for form 1449A/PTO (Modified)				Complete if Known	
				Application Number	09/866,067
				Filing Date	May 23, 2001
				First Named Inventor	MEADE, Thomas J.
				Art Unit	1634
				Examiner Name	WU, Frank Wei Min
Sheet	1	of	3	Attorney Docket Number	A-58762-20 (468267-00034)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
<i>m</i>	A1	5,238,808	08-24-1993	Bard et al.	_____
	A2	6,268,149 B1	07-31-2001	Meade et al.	_____
	A3	6,268,150 B1	07-31-2001	Meade et al.	_____
	A4	6,277,576 B1	08-21-2001	Meade et al.	_____
	A5	6,361,671 B1	03-26-2002	Mathies et al.	_____
	A6	6,528,266 B2	03-04-2003	Meade et al.	_____
	A7	2003/0170677 A1	09-11-2003	Meade et al.	_____
<i>v</i>	A8	2004/0101890 A1	05-27-2004	Meade et al.	_____

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ² Number ³ Kind Code ⁴ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
<i>m</i>	B1	EP 0 142 301 A2	05-22-1985	Serono Diagnostics Limited	_____
	B2	EP 0 439 036 A2	07-31-1991	Hoffman La Roche	_____
	B3	WO 91/13075 A2/A3	09-05-1991	Orion-Yhtymäe Oy	_____
	B4	WO 97/46568 A1	12-11-1997	California Institute of Technology	_____
<i>v</i>	B5	WO 01/42508 A2/A3	06-14-2001	Motorola, Inc.	_____

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
<i>m</i>	C1	BIGNOZZI, C., et al., "A simple poly(pyridine)ruthenium(II) photosensitizer: (2,2'-bipyridine)tetra(cyanoruthenate(II)), " <i>J. Am. Chem. Soc.</i> 108(24):7872-7873 (Nov. 1986).			
	C2	CARTER, M., et al., "Electrochemical investigations of the interaction of metal chelates with DNA. 3. Electrogenerated chemiluminescent investigation of the interaction of tris(1,10-phenanthroline)ruthenium(II) with DNA," <i>Bioconjug. Chem.</i> 1(4):257-263 (Jul. - Aug. 1990).			
	C3	CHENG, Q., et al., "Selectivity and Sensitivity of Self-Assembled Thioctic Acid Electrodes," <i>Anal. Chem.</i> 64(17):1998-1999 (Sep. 1992).			
	C4	CLARKE, P.R., et al., "Physical and Chemical Aspects of Ultrasonic Disruption of Cells," <i>J. Acoustics Soc. Am.</i> 50(2):649-653 (Feb. 1970).			
	C5	EGGERS, M., et al., "Genosensors: Microfabricated Devices for Automated DNA Sequence Analysis," <i>Adv. DNA Sequencing Tech.</i> 1891:113-126 (1993).			
<i>v</i>	C6	EGHOLM, M., et al., "PNA hybridizes to complementary oligonucleotides obeying the Watson-Crick hydrogen-bonding rules," <i>Nature</i> 365(6446):566-568 (Oct. 1993).			

Examiner Signature	<i>Mark m</i>	Date Considered	<i>4/12/2005</i>
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M	C7	ELLIOTT, C.M., et al., "Electrochemistry, Spectroelectrochemistry, and Photochemistry of a Series of New Covalently Linked Tris(2,2'-bipyridine)ruthenium(II)/Diquat Complexes," <i>J. Am. Chem. Soc.</i> 107(16):4647-4655 (Aug. 1985).			
	C8	GOODWIN, D., et al., "Microwave Miniprep of Total Genomic DNA from Fungi, Plants, Protists and Animals for PCR," <i>BioTechniques</i> 15(3):437-441 (1993).			
	C9	HÄUSSLING, L., et al., "Biotin-Functionalized Self-Assembled Monolayers on Gold: Surface Plasmon Optical Studies of Specific Recognition Reactions," <i>Langmuir</i> 7(9):1837-1840 (Sep. 1991).			
	C10	HÄUSSLING, L., et al., "Direct observation of streptavidin specifically adsorbed on biotin-functionalized self-assembled monolayers with scanning tunneling microscope," <i>Angew. Chem. Int. Ed. Engl.</i> 30(5):569-572 (May. 1991).			
	C11	HERNE, T.M., et al., "Characterization of DNA Probes Immobilized on Gold Surfaces," <i>J. Am. Chem. Soc.</i> 119(38):8916-8920 (Sep. 1987).			
	C12	HOFFMANN, A., et al., "Purification of his-tagged proteins in non-denaturing conditions suggests a convenient method for protein interaction studies," <i>Nucleic Acids Res.</i> 19(22):6337-6338 (Nov. 1991).			
	C13	HULTNER, M., et al., "A Bacterial Plasmid DNA Miniprep Using Microwave Lysis," <i>BioTechniques</i> 16(6):990-992 (1994).			
	C14	JONSSON, U., et al., "Biosensors based on surface concentration measuring devices – The concept of surface concentration," <i>Prog. Colloid Polym. Sci.</i> 70:96-100 (1985).			
	C15	KATZ, E., et al., "Application of stilbene-(4,4'-diisothiocyanate)-2,2'-disulfonic acid as a bifunctional reagent for the organization of organic materials and proteins onto electrode surfaces," <i>J. Electroanal. Chem.</i> 354(1&2):129-144 (1993).			
	C16	KATZ, E., et al., "Electron Transfer in Self-Assembled Monolayers of N-Methyl-N'-carboxyalkyl-4-4'-bipyridinium Linked to Gold Electrodes," <i>Langmuir</i> 9(5):1392-1396 (May. 1993).			
	C17	KHRAPKO, K., et al., "A method for DNA sequencing by hybridization with oligonucleotide matrix," <i>DNA Seq. J. DNA Sequencing Mapping</i> , 1:375-388 (1991).			
	C18	KOHNE, D., et al., "Room temperature method for increasing the rate of DNA reassociation by many thousandfold: the phenol emulsion reassociation technique," <i>Biochemistry</i> 16(24):5329-5341 (Nov. 1977).			
	C19	KRETSCHMANN, E., et al., "Radioactive decay of non radiative surface plasmons excited by light," <i>Z. Naturforsch.</i> 23A:2135-2136 (1968).			
	C20	MASUDA, S., et al., "Novel method of cell-fusion in field constriction area in fluid integrated-circuit," <i>IEEE Trans. Ind. Appl.</i> 25(4):732-737 (1989).			
	C21	MAZZOCCHI, P., et al., "Protolysis of N-(2-Methyl-2-Propenyl)phthalimide in Methanol. Evidence Supporting Radical-Radical Coupling of a Photochemically Generated Radical Ion Pair," <i>J. Am. Chem. Soc.</i> 108(18):5361-5362 (1986).			
	C22	MEIER, C., et al., "Peptide Nucleic Acids (PNA)- Unusual properties of Nonionic oligonucleotide analogues," <i>Angew. Chem. Int. Ed. Engl.</i> 31(8):1008 (1992).			
V	C23	MISTLER, R.E., "Tape Casting: The Basic Process for Meeting the Needs of the Electronics Industry," <i>Ceramic Bull.</i> 69(6):1022-1026 (1990).			

Examiner Signature	<i>Mike W</i>	Date Considered	4/12/2005
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M	C24	MORRISON, R., et al., <i>Organic Chemistry Organic Chemistry</i> , Allyn and Bacon, Inc.: Boston, MA, pp. 1004-1005 (1973).	✓
	C25	MÜLLER, W., et al., "DNA fractionation by two-phase partition with aid of a base specific macroligand," <i>Anal. Biochem.</i> 118(2):269-277 (Dec. 1981).	✓
	C26	OBENG, Y., et al., "Electrogenerated Chemiluminescence. 53. Electrochemistry and Emission from Adsorbed Monolayers of a Tris(bipyridyl) ruthenium (II)- Based Surfactant on Gold and Tin Oxide Electrodes," <i>Langmuir</i> 7(1):195-201 (Jan. 1991).	✓
	C27	PONTIUS, B.W., et al., "Rapid renaturation of complementary DNA strands mediated by cationic detergents: A role for high-probability binding domains in enhancing the kinetics of molecular assembly processes," <i>Proc. Natl. Acad. Sci. USA</i> 88(18):8237-8241 (Sep. 1991).	✓
	C28	PREZYNA, L., et al., "Interaction of catanionic polypeptides with electropolymerized poly(styrenesulfonate) and poly(n-methylpyrrole)/poly(styrenesulfonate) films," <i>Synth. Metals</i> 41(3):979-981 (May. 1991).	✓
	C29	RÜCHEL, R.R., "Transmission-electron microscopic observations of freeze-etched polyacrylamide gels," <i>J. Chromatogr. A</i> 166(2):563-575 (Dec. 1978).	✓
	C30	SMITH, E., et al., "Corticotropin releasing factor induction of leukocyte-derived immunoreactive ACTH and endorphins," <i>Nature</i> 321(6073):881-882 (Jun. 1986).	✓
	C31	STEINBERG, S., et al., "Ion-Selective Monolayer Membranes Based upon Self-Assembling Tetradeятate Ligand Monolayers on Gold Electrodes. 3. Application as Selective Ion Sensors," <i>Langmuir</i> 8(4):1183-1187 (Apr. 1992).	✓
	C32	SUN, S., et al., "Preparation of Active Langmuir-Blodgett Films of Glucose Oxidase," <i>Langmuir</i> 7(4):727-737 (Apr. 1991).	✓
	C33	TOPFER, M. L., "Technology," <i>Thick-Film Microelectronics: Fabrication, Design, and Applications: Microelectronics Series</i> , pp. 41-59, Van Nostrand Reinhold Co., New York, NY (1971).	✓
	C34	WILLNER, I., et al., "Development of novel biosensor enzyme electrodes: glucose oxidase multilayer arrays immobilized onto self-assembled monolayers on electrodes," <i>Adv. Mater.</i> 5(12):912-915 (1993).	✓

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